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January 16, 2004

BY HAND AND/OR ELECTRONICALLY, AS NOTED

Marlene H. Dortch Secretary Federal Communications Commission 445 12th Street, S.W. Washington, D.C. 20554

Re: DA 03-3585, RM-10821; Wireless Telecommunications Bureau Seeks Comment On MariTEL, Inc. Petition for Declaratory Ruling and National Telecommunications and Information Administration Petition for Rulemaking Regarding the Use of MariTime VHF Channels 87B and 88B; NOTICE OF EX PARTE PRESENTATION; Filed By Hand and Electronically

PR Docket No. 92-257; Amendment of the Commission's Rules Concerning Maritime Communications; NOTICE OF EX PARTE PRESENTATION; Filed Electronically

ET RM-10743; Commission's Rules to Promote the Use of VHF Public Coast Station Frequencies; NOTICE OF EX PARTE PRESENTATION; Filed Electronically

DA 03-1484; MARITEL, Inc. Request to Extend Construction Deadline for Certain VHF Public Coast Station Geographic Area Licenses; NOTICE OF EX PARTE PRESENTATION; Filed by Hand

Dear Ms. Dortch:

Pursuant to the provisions of Section 1.1206(b) of the rules and regulations of the Federal Communications Commission ("FCC"), this letter provides notice of a meeting between Dan Smith and Jason Smith of MariTEL, Inc. ("MariTEL"), their undersigned counsel and Catherine Seidel, Scot Stone, Jeffrey Tobias and Tim Maguire, all of the Wireless Telecommunications Bureau.

MINTZ, LEVIN, COHN, FERRIS, GLOVSKY AND POPEO, P.C.

Marlene H. Dortch January 16, 2004 Page 2

At the meeting, MariTEL officials explained their plans to provide a data communications service on the VHF Public Coast ("VPC") channels for which MariTEL is licensed. They explained that harmful interference caused by the proliferation of currently approved automatic identification system ("AIS") devices would prevent MariTEL from successfully introducing its service and would effectively reduce the frequencies, purchased by MariTEL, available to it. MariTEL proposed means by which these matters, and those regarding the request by the United States Coast Guard ("USCG") to dedicate channels 87B and 88B for AIS, could be solved. It stated that it would provide a more complete version of its proposal shortly. MariTEL also noted that that although the FCC recently approved its request for extension of time to construct its facilities, it could not effectively do so until matters related to its authorized spectrum, had been resolved. A copy of a presentation made to FCC officials at the meeting is attached.

Should there be any questions regarding this matter, please contact the undersigned directly.

Cordially yours,

/s/ Russell H. Fox

Russell H. Fox

Attachment

cc: (each electronically, w/attachment)
Catherine Seidel
Scot Stone
Jeffrey Tobias
Tim Maguire

WDC 344075v1



Marine VHF Data Discussion

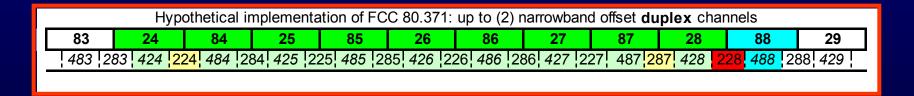
January 15, 2004



Opportunity Per FCC 80.371

MariTEL Commercial Opportunity:

- Use VPC channels to provide AIS based network services in non-PAWSS areas for port authorities, local governments, etc. to facilitate "voiceless" maritime communications.
- Use channels 87 and 88 to communicate with SOLAS vessels carrying AIS transponders.
- Bundle these and other services with traditional voice and/or data
 VPC services on a CMRS or PMRS basis.



Basis of VPC Auction... "Ground Rules"

 Up to (2) narrowband offset duplex channels used only in USCG PAWSS VTS operations for ship-shore and shore-ship transmissions (nationwide ship-ship uses 228B) to actively manage the flow of vessels in narrow and congested navigable waterways.



Mobile Data Device

- 12.5 kHz or 25 kHz channel spacing
- Up to 22 kbps
- USB and RS-232 Serial Port for easy networking
- Selective ID and Broadcasting Addressing
- 1 to 6 Watts
- Less than 15 ms transmitter attack time
- On board RAM for "seemingly" faster throughput

Not an experiment





Product Segmentation

		Cellular			2.4 GHz Unlicensed		
	VHF	GOM Analog	2.5G	3G	LAN	Pt-Pt / BWA	Satellite
Maximum Bandwidth	22+ kbps	9.6 kbps	50 kbps	Mbps	Mbps	> 100 kbps	100 kbps - Mbps
Integration to Vessel's Bridge	> >	>	>	~	>	~	~ ~ ~
Applications							
Vessel telemetry (ex. Engine diagnostics)	~ ~ ~		>	~	~	~	✓ ✓
Automatic vessel location ("AVL")	> > >		~	~	>	>	~ ~
Text messaging	~ ~ ~	~	>	~ ~ ~	> > >	~ ~ ~	V V V
E-mail	~ ~	~	>	~ ~ ~	> > >	~~~	V V V
Low speed web browsing (Eudora)	~ ~		>	~ ~ ~	> > >	~~~	V V V
Full speed web browsing (Explorer)			>	~ ~ ~	> > >	~ ~	V V V
Maximum coverage distance	50 mi	30 mi	15 mi	15 mi	5 mi	25 mi	N/A
Monthly price range	\$15 to \$100	\$100 to \$500	\$40 to \$150	\$40 to \$150	\$150+	\$500+	\$1,000+
		_					
Price of customer equipment	\$500+	\$500+	\$100	\$100	\$50	\$500+	> \$2,000

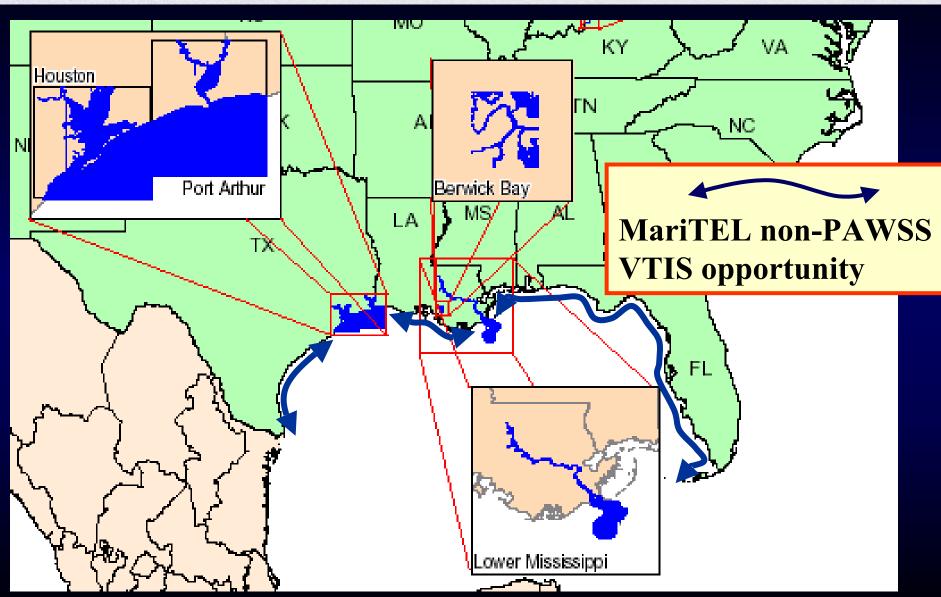
Complimentary to broadband technologies and shorter wavelength spectrum.



Gulf of Mexico ("GOM") Spotlight

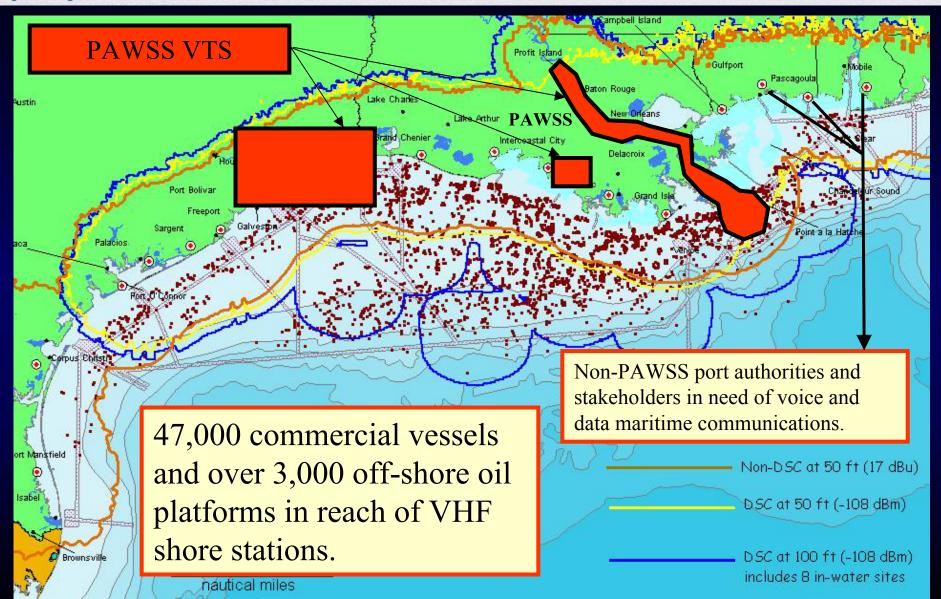


USCG PAWSS VTS Areas





GOM Opportunity

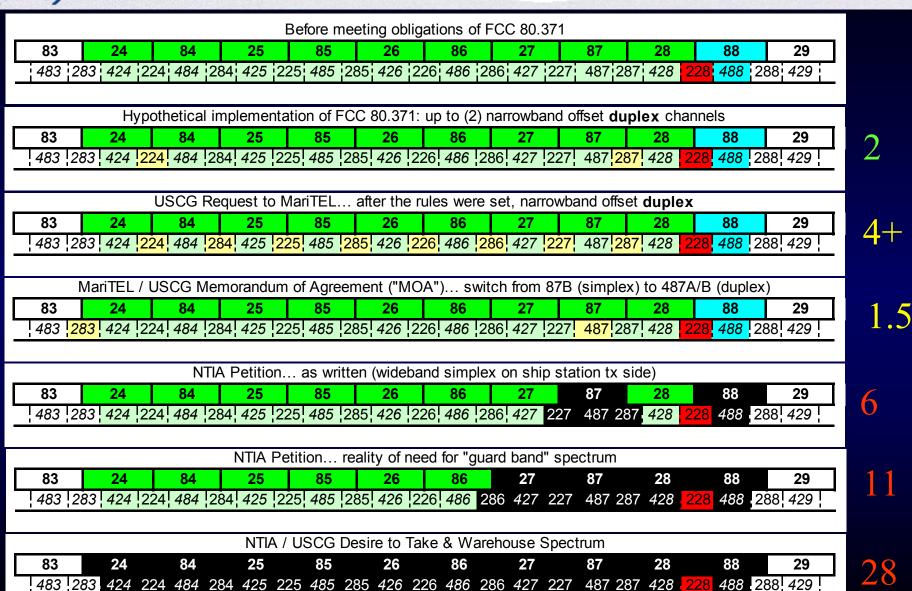




3 Consequences of NTIA Petition



Bandwidth





Legend



MariTEL "wideband" 25 KHz channels

MariTEL "narrowband" 12.5 KHz channels



MariTEL channels above Line A



Narrowband 12.5 KHz duplex channels for PAWSS VTS ship-shore, shore-ship communications



Channel assigned for use in PAWSS by USCG per Section 80.371 (c)(3)



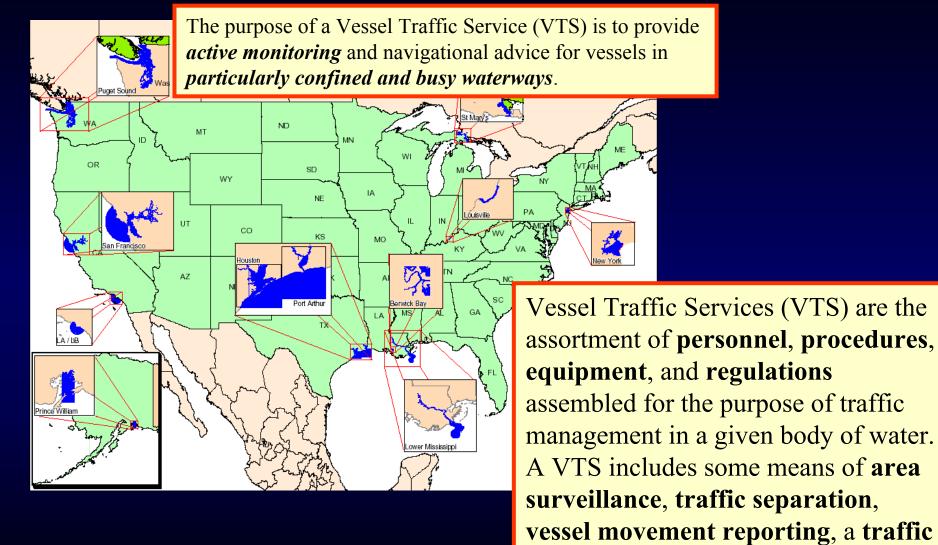
Exclusive use of channel by the licensed party; not above/beyond FCC rules





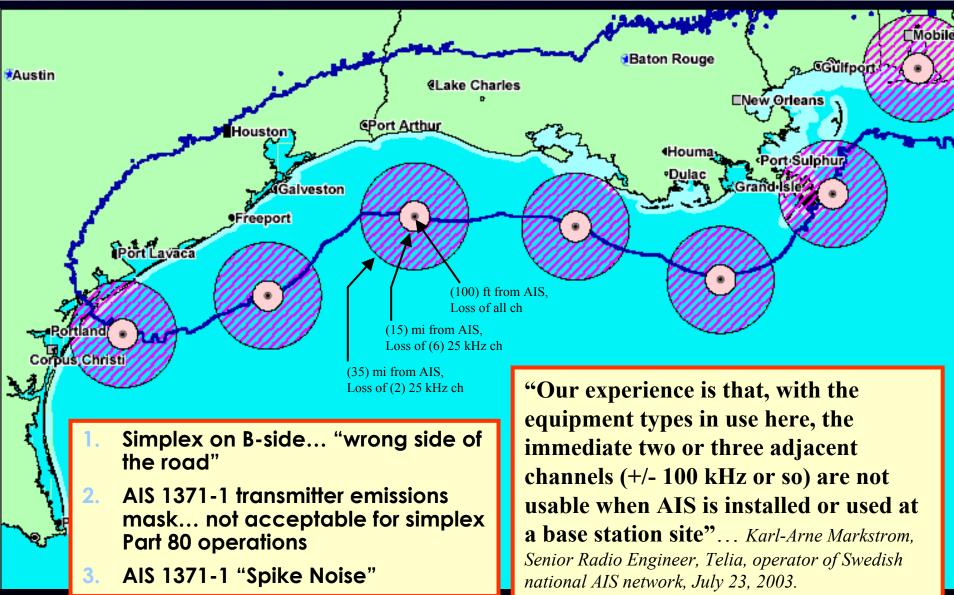
Federal vs. Non-Federal

center, and enforcement capability.





AIS to VPC Interference





3 Consequences of NTIA Petition

- 1. Bandwidth
- 2. Federal vs. Non-Federal
- 3. AIS to VPC Interference

Result: Overturns the VPC auction and eliminates MariTEL's right to use its licensed spectrum.



Solving the Controversy



MariTEL / FCC & NTIA Agreement

- MariTEL / FCC and NTIA agree to designate channels 87B and 88B for 25 kHz simplex AIS use throughout the major navigable waterways on a **shared** government, non-government basis.
 - No cost to vessel operators for use of spectrum.
 - Federal government entities allowed to operate shore stations in all areas for VTS and surveillance applications.
 - MariTEL allowed to operate shore stations in all areas for non-federal government shore station AIS applications.

 NTIA and MariTEL share use of both AIS channels using "time slot allocation" techniques.



The SOTDMA broadcast mode allows the system to be overloaded by 400 to 500% through sharing of slots, and still provide nearly 100% throughput for ships closer than 8 to 10 NM to each other in a ship to ship mode. In the event of system overload, only targets further away will be subject to drop-out, in order to give preference to nearer targets that are a primary concern to ship operators. In practice, the capacity of the system is nearly unlimited, allowing for a great number of ships to be accommodated at the same time.

http://www.navcen.uscg.gov/enav/ais/how_AIS_works.htm



Required FCC Action

- 1. Remedy 1371-1 AIS interference issues due to current transmitter emissions mask and "spike noise".
- 2. Make it illegal for unauthorized shore station transmission **and** reception of AIS signals.
- 3. Approve MariTEL's PMRS Petition (RM-10743).